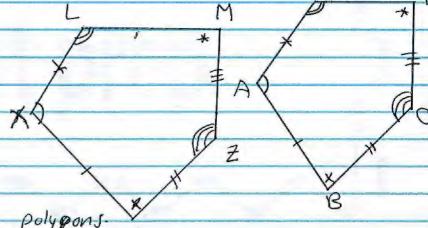
## The First Notebook First prep Geometry Prepared by Mr / Ahmed Omar\*Mr / Ahme

## Third: Congruence of two polygons:

Two polygons are Congruent if there is correspondence between their vertices such that each side and each angle in the first polygon is Congruent to its corresponding element in the other polygon

for example:



In the apposite two polygons. Y

If:

(b) Each two Corresponding Sides are equal

i.e. AB=XY, BC= XZ, CD=ZM, DE=MI

Each two corresponding angles are equal in measure

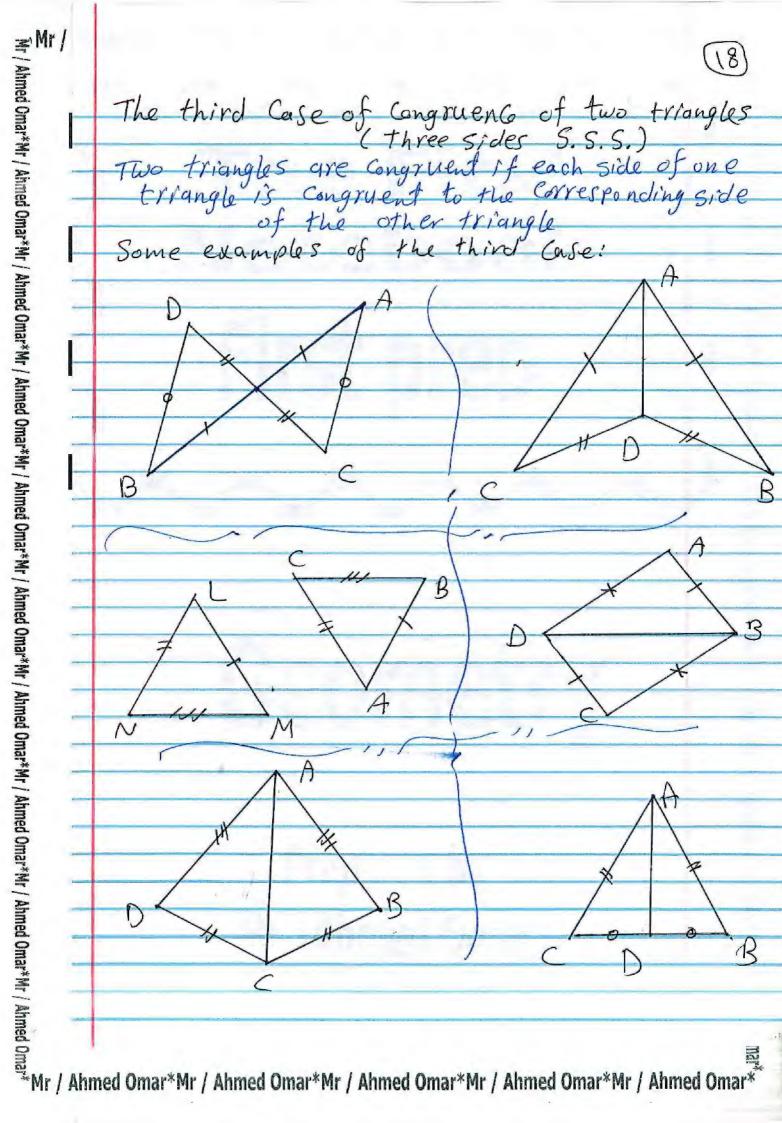
ice m(LA)=m(LX), m(LB)=m(LY), m(LC)=m(LB) m(LD)=m(LM) and m(LE)=m(LL)

then the polygon ABCDE is Congressent to the

polygon XYZML and we write

The polygon ABCDE = the polygon XYZML

drawn between their vertices of one triangle are Congruent



B